

P610886/PCT

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Patent Claims

1. A waveguide filter formed from a substrate (S),  
5 which is coated on the upper face with a  
structured metallic layer (TM) and has one or more  
lines (ML1, ML2) for carrying electromagnetic  
waves, and from a component (FB), with the  
10 component (FB) being fitted to the upper face of  
the substrate (S) and with one side wall of the  
waveguide filter being formed by the structured  
metallic layer (TM) on the substrate (S), and with  
the other side walls of the waveguide filter being  
15 formed by the component (FB), and the with the  
waveguide filter having input and output points  
for coupling the electromagnetic waves carried in  
the lines (ML1, ML2) to the waveguide filter, and  
vice versa, characterized in that the lines (ML1,  
20 ML2) are metallic striplines.
2. The waveguide filter as claimed in claim 1,  
characterized in that the component (FB) is a  
surface mounted device.
- 25 3. The waveguide filter as claimed in claim 2,  
characterized in that the component (FB) has a  
circumferential web (ST) which rests on the  
structured metallic layer (TM) on the upper face  
of the substrate (S).
- 30 4. The waveguide filter as claimed in one of the  
preceding claims, characterized in that the cross  
section of the component (FB) is chosen in  
accordance with the predeterminable filter  
35 characteristics of the waveguide filter (HF).
5. The waveguide filter as claimed in one of the  
preceding claims, characterized in that that side

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wall of the component (S) which is opposite the upper face of the substrate (S) has a structure (SK) which can be predetermined for the appropriate filter characteristics.

